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Analytical Methods

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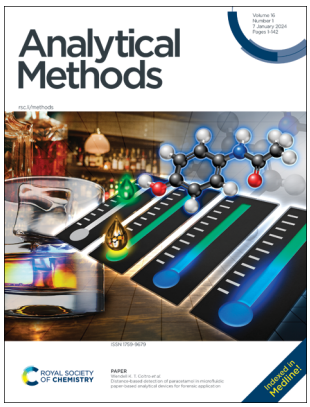

Cover
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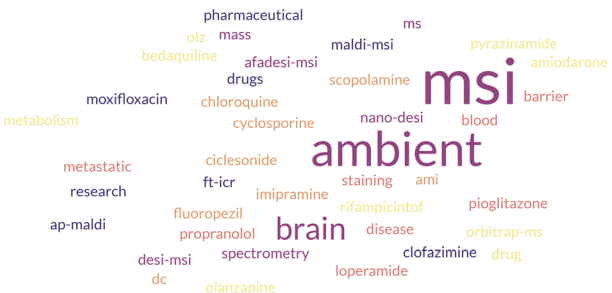
Bharath Sampath Kumar*



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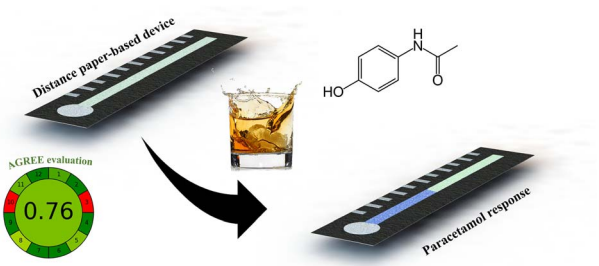
Distance-based detection of paracetamol in microfluidic paper-based analytical devices for forensic application

Nikaele S. Moreira, Kemilly M. P. Pinheiro, Lucas R. Sousa, Gabriel D. S. Garcia, Federico Figueredo and Wendell K. T. Coltro*



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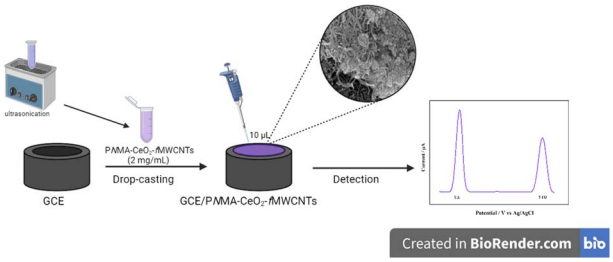
Development of a facile electrochemical sensor based on GCE modified with one-step prepared PNMA-CeO_2-fMWCNTs composite for simultaneous detection of UA and 5-FU

Kübra Turan, Ahmet Üğe, Bülent Zeybek and Gözde Aydoğdu Tiğ*



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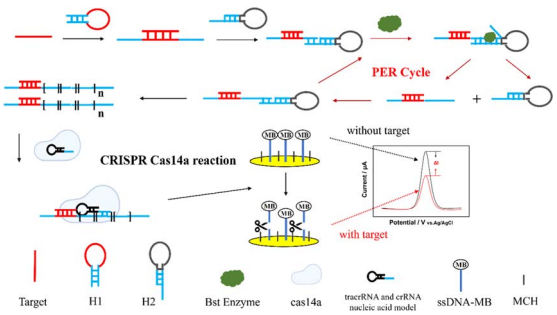
PER-CRISPR/Cas14a system-based electrochemical biosensor for the detection of ctDNA EGFR L858R

Jing Qi, Qianyi Qi, Zhou Zhou, Yixuan Wu, Aiting Cai, Jinran Wu, Bairong Chen, Qingxiang Wang, Lin Chen* and Feng Wang*



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Sensitive determination of 4,6-dinitro-*o*-cresol based on a glassy carbon electrode modified with Zr-UiO-66 metal–organic framework entrapped FMWCNTs

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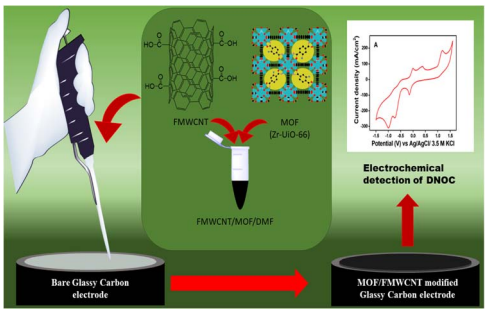

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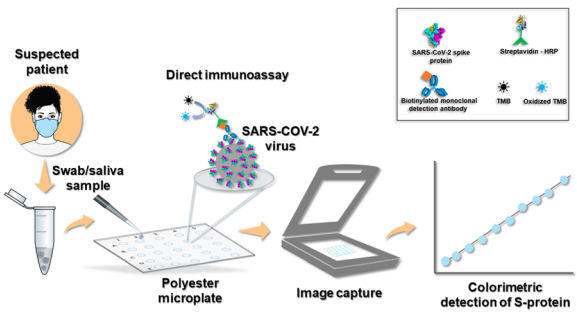
Direct immunoassay on a polyester microwell plate for colorimetric detection of the spike protein in swab and saliva samples

Nikaele S. Moreira, Thaisa A. Baldo, Lucas C. Duarte, Leonardo Lopes-Luz, Karoliny A. Oliveira, Paulo F. N. Estrela, Amanda M. Simões, Samira Bührer-Sékula, Gabriela R. M. Duarte and Wendell K. T. Coltro*



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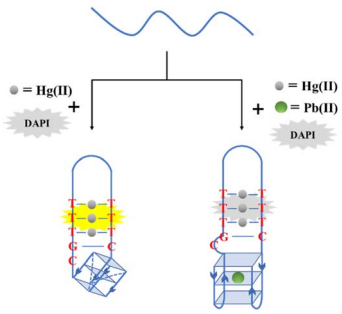

Development of a split G-quadruplex and DAPI-based fluorescent probe for Hg(II) and Pb(II) ions detection

Youyang Xu, Yuxin Liu, Xiangxiang Li, Yule Cai, Zihan Gao and Jieqiong Qiu*

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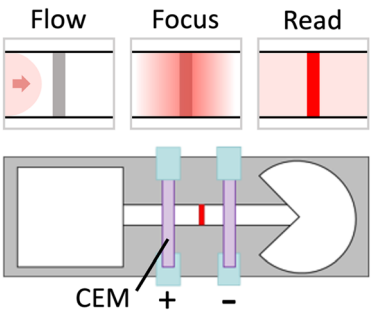

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Kira L. Rahn, Sommer Y. Osman, Quinlan G. Pollak and Robbyn K. Anand*

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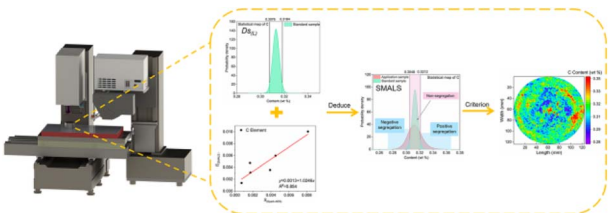

Lower limit characterization of segregation degree for large-size low-alloy steel

Xiaofen Zhang, Yunhai Jia,* Zhigang Yang,* Liang Sheng, Baibing Li, Yong Lyu, Shanshan Xu, Chunyan Zhang and Zhihao Tang

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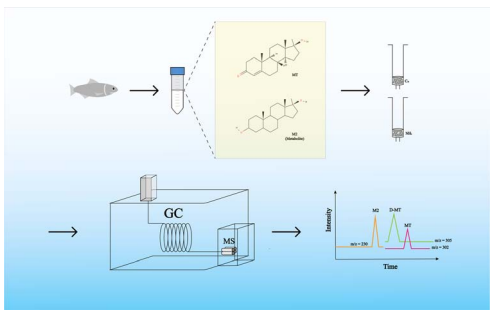

Simultaneous determination of methyltestosterone and its metabolite in fish by gas chromatography-mass spectrometry

Liufeng Zhang, Juan Sun, Yinmeng Ding, Li Li* and Jing Liu*

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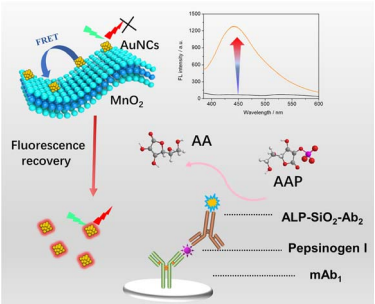
Ultrasensitive fluorescence immunoassay of pepsinogen I based on enzyme-triggered decomposition of AuNCs/MnO_2

Huanzong Zhang, Binhuang Cai, Fan Cai,* Mingzhe Lian* and Yinghui Wang



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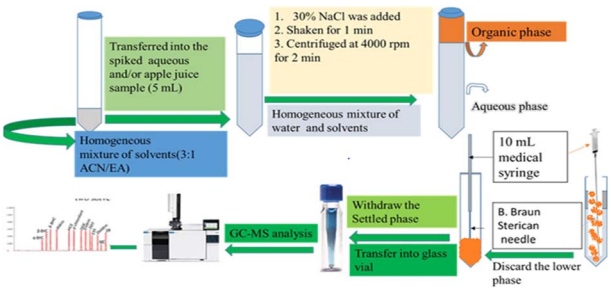
Ternary solvent based homogeneous liquid–liquid microextraction for the preconcentration of organochlorine pesticides from water and apple juice samples

Kero Assefa Ago,* Shimeles Addisu Kitte, Gadisa Chirfa and Abera Gure



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